

File: JPAB

Dec 17, 1985

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DOCUMENT-IDENTIFIER: JP 60255797 A

TITLE: METHOD OF SELECTIVE DEPROTECTION OF PROTECTING GROUP OF ACETAL GROUP

PUBN-DATE: December 17, 1985

INVENTOR-INFORMATION:

NAME

COUNTRY

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US-CL-CURRENT: 556/449

INT-CL (IPC): C07F 7/18; C07B 61/00; C07C 177/00; C07D 205/08

ABSTRACT:

PURPOSE: To deprotect selectively only a protecting group of acetal type, by heat-treating a compound containing a protecting group of acetal type and a protecting group of silyl ether type in the molecule.

CONSTITUTION: A compound (e.g., 1-tetrahydropyranyloxy-10-t-butyldimethylsilyloxydecane, etc.) containing one or more protecting group of acetal type (e.g., tetrahydropyranyl group, etc.) and a protecting group of silyl ether type (e.g., t-butyldimethylsilyl group, etc. in the molecule is heated preferably in a solvent (e.g., toluene, etc.) at 100~250°C, to give a compound (e.g., 1-t-butyldimethylsilyloxy-10-decanol, etc.) wherein the protecting group of acetal type is selectively deprotected.

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TITLE: Protective group selective removal - by heating cpd. with acetal and silyl
gps. to remove acetal gp.

PRIORITY-DATA: 1984JP-0108607 (May 30, 1984)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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INT-CL (IPC): C07B 61/00; C07C 177/00; C07D 205/08; C07F 7/18

ABSTRACTED-PUB-NO: JP 60255797A

BASIC-ABSTRACT:

Cpd. which has more than one kind of acetal type protective radical and silyl type protective radical in molecule is heated and acetal type protective radical is selectively removed.

Acetal type protective radical used is e.g. tetrahydropyranyl, 1-ethoxyethyl, methoxymethyl, methylthiomethyl, benzyloxymethyl, t-butoxymethyl, 2-methoxyethoxymethyl, 2,2,2-trichloroethoxymethyl, bis(2-chloroethoxy)methyl, 2-(trimethylsilyl)ethoxymethyl, 3-bromotetrahydropyranyl, tetrahydrothiopyranyl, 4-methoxy-tetrahydropyranyl, tetrahydrofuran, 1-methyl-1-methoxyethyl.

Silylether type protective radical is e.g. t-butyldimethylsilyl triethylsilyl, tribenzylsilyl, (triphenylmethyl) dimethylsilyl, t-butyldiphenylsilyl, methyl-diisopropylsilyl, methyl-di-t-butylsilyl, triphenylsilyl, trimethylsilyl.

Heat treatment is necessary and pref. reaction temp. is 100-250 deg.C. This reaction is pref. in organic solvents e.g. benzene, toluene, xylene, hexane, acetonitrile, t-butyl alcohol, t-amyl alcohol.

USE - For protection of acetal radical.